

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|---|---|------------------|---------|---------------------|
| S1    | 231  | (vehicle or automobile or automotive or car or truck) and (air adj condition\$3) and (film with (door or member or valve or shutter or damper)) and ((roller or shaft or rod) with (cover or cap or hous\$3 or cas\$3) with (pivot\$4 or rotat\$4))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/09/22<br>18:06 |
| S2    | 51   | ("20010008148"  <br>"20020197951"  <br>"20030171091"  <br>"20030232590"  <br>"20040043720"   "2254459"<br>  "2567536"   "2692515"  <br>"3065950"   "3299442"  <br>"4964422"   "4967778"  <br>"5051013"   "5145456"  <br>"5154223"   "5160115"  <br>"5243830"   "5472790"  <br>"5564979"   "5653630"  <br>"5676595"   "5885152"  <br>"5890651"   "5899262"  <br>"5899806"   "5916021"  <br>"5964658"   "6045444"  <br>"6048263"   "6074294"  <br>"6270400"   "6293339"  <br>"6305462"   "6347988"  <br>"6351961"   "6354935"  <br>"6382305"   "6383959"  <br>"6450877"   "6508703"  <br>"6568468"   "6588495"  <br>"6612922"   "6669549"  <br>"6688964"   "6811481").PN.<br>OR ("7527551").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/09/22<br>18:13 |
| S3    | 4    | ("5105730"   "5653630").<br>PN. OR ("5916021").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR               | ON      | 2009/09/22<br>18:15 |

|    |    |   |                           |    |    |                     |
|----|----|---|---------------------------|----|----|---------------------|
| S4 | 27 | ("20040198214"  <br>"20050000574"  <br>"20050048910"   "3068891"<br>  "3147768"   "3396904"  <br>"3672293"   "3880402"  <br>"4258616"   "4334552"  <br>"4558718"   "4653385"  <br>"4739924"   "4852639"  <br>"5218998"   "5490395"  <br>"5507547"   "5551667"  <br>"5596966"   "5653630"  <br>"5663630"   "6431257"  <br>"6588495"   "6669549").PN.<br>OR ("7431638").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/09/22<br>18:19 |
| S5 | 37 | ("20010008148"  <br>"20030013404"  <br>"20030171091"  <br>"20030232590"  <br>"20040043720"   "5145456"<br>  "5154223"   "5160115"  <br>"5243830"   "5472790"  <br>"5564979"   "5653630"  <br>"5676595"   "5885152"  <br>"5890651"   "5899262"  <br>"5899806"   "5916021"  <br>"6045444"   "6048263"  <br>"6270400"   "6293339"  <br>"6296562"   "6305462"  <br>"6347988"   "6351961"  <br>"6354935"   "6382305"  <br>"6450877"   "6508703"  <br>"6568468"   "6569009"  <br>"6588495"   "6612922"  <br>"6669549"   "6688964"  <br>"6811481").PN. OR<br>("7371161").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/09/22<br>18:20 |
| S6 | 20 | ("1138994"   "1924419"  <br>"20030232590"   "3773077"<br>  "4084617"   "4147183"  <br>"4484728"   "5044417"  <br>"5105871"   "5160115"  <br>"5236124"   "5238023"  <br>"5243830"   "5706170"  <br>"6173640"   "6508703"  <br>"6569009"   "6843301").PN.<br>OR ("7311593").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/09/22<br>18:23 |
| S7 | 11 | ("1138994"   "1924419"  <br>"3773077"   "4084617"  <br>"4147183"   "4484728"  <br>"5236124"   "5238023"  <br>"6173640").PN. OR<br>("6981690").URPN.   | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/09/22<br>18:24 |

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|-----|----|---|---|----|-----|---------------------|
| S8  | 22 | ("20010008148"  <br>"5105730"   "5145456"  <br>"5154223"   "5160115"  <br>"5243830"   "5326315"  <br>"5564979"   "5720657"  <br>"5885152"   "5899262"  <br>"5901943"   "5906355"  <br>"5931733"   "5934361"  <br>"6045444"   "6074294"  <br>"6211630"   "6273811"  <br>"6296562"   "6569009").PN.<br>OR ("6979258").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/22<br>18:25 |
| S9  | 7  | ("5145456"   "5243830"  <br>"5878806"   "5906355"  <br>"6074294"   "6325096"  <br>"6979258").PN. OR<br>("7246788").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/22<br>18:33 |
| S10 | 18 | ("4476773").PN. OR<br>("5105730").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/22<br>18:39 |
| S11 | 7  | ("5105730"   "5160115"  <br>"5326315"   "5901943").PN.<br>OR ("6616060").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/22<br>18:42 |
| S12 | 3  | ("4513808"   "5160115"  <br>"5706667").PN. OR<br>("6449981").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/22<br>18:43 |
| S13 | 7  | ("5160115").PN. OR<br>("6296562").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/22<br>18:44 |
| S14 | 9  | ("5243830"   "5632672"  <br>"5653630"   "5890651"  <br>"5964658").PN. OR<br>("6074294").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/22<br>18:45 |
| S15 | 3  | ("6802768").PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/09/22<br>18:50 |
| S16 | 13 | ("4050364"   "4996849"  <br>"5160115"   "5195719"  <br>"5700191"   "5797585"  <br>"6048263"   "6209404"  <br>"6354935"   "6398638"  <br>"6471580").PN. OR<br>("6802768").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON  | 2009/09/22<br>18:50 |

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|-----|-----|---|---|----|-----|---------------------|
| S17 | 0   | (vehicle or automobile or automotive or car or truck) and (air adj condition\$3) and (film with (door or member or valve or shutter or damper)) and ((roller or shaft or rod) same (cover or cap or hous\$3 or cas\$3) same (film near3 hinge)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/09/22<br>18:52 |
| S18 | 1   | (vehicle or automobile or automotive or car or truck) and (air adj condition\$3) and (film with (door or member or valve or shutter or damper)) and ((roller or shaft or rod) and (film near3 hinge))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/09/22<br>18:52 |
| S19 | 146 | ((roller or shaft or rod) same (cover or cap or hous\$3 or cas\$3) same (film near2 hinge))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/09/22<br>18:53 |
| S20 | 34  | Danieau-Jacques\$.in.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/09/22<br>18:58 |
| S21 | 8   | ((("5,901,943") or ("5,632,672") or ("5,916,021") or ("5,878,806")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/09/22<br>19:09 |
| S22 | 18  | ((("3,282,613") or ("4,095,113") or ("5,105,730") or ("5,653,630") or ("5,916,021") or ("5,954,578") or ("6,023,899") or ("6,695,691")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/09/22<br>19:13 |
| S23 | 14  | ((("5,145456") or ("5,243,830") or ("6,325,096") or ("6,979,258") or ("6,074,294") or ("5,916,021") or ("20050217738")).PN.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/09/22<br>19:18 |

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|-----|-----|---|---|----|----|---------------------|
| S24 | 243 | (vehicle or automobile or automotive or car or truck) and (air adj condition\$3) and (film with (door or member or valve or shutter or damper)) and (roller or shaft or rod) and ((stack\$3 or multiple or two or three) with film) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/22<br>19:23 |
| S25 | 11  | ("1138994"   "1924419"   "3773077"   "4084617"   "4147183"   "4484728"   "5236124"   "5238023"   "6173640").PN. OR ("6981690").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/22<br>19:34 |
| S26 | 7   | ("5160115").PN. OR ("6296562").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/22<br>19:36 |
| S27 | 5   | ("5399120").PN. OR ("5632672").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/22<br>19:38 |
| S28 | 41  | Schwahn-Werner\$.in.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/22<br>19:47 |
| S29 | 127 | Klingler-Dietrich\$.in.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/22<br>19:49 |
| S30 | 17  | 454/121.ccls. and @pd> = "20080319"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>14:52 |
| S31 | 7   | 454/126.ccls. and @pd> = "20080319"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>14:52 |
| S32 | 10  | 454/160.ccls. and @pd> = "20080319"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>14:52 |

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| S33 | 10  | 454/161.ccls. and<br>@pd> = "20080319"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>14:52 |
| S34 | 77  | 165/41.ccls. and<br>@pd> = "20080319"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>14:53 |
| S35 | 63  | 165/42.ccls. and<br>@pd> = "20080319"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>14:53 |
| S36 | 323 | 454/69.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>15:07 |
| S37 | 899 | 454/156.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>15:18 |
| S38 | 303 | 251/901.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>15:18 |
| S39 | 125 | ("0828733"   "1256522"  <br>"1583420"   "1780269"  <br>"2021868"   "2184644"  <br>"2356592"   "2631588"  <br>"2634017"   "2733351"  <br>"3084258"   "3271786"  <br>"3381289"   "3483871"  <br>"3670466"   "3679531"  <br>"4075811"   "4320611"  <br>"4475445"   "4476773"  <br>"5105730"   "5326315"  <br>"5653630"   "5775407"  <br>"6048263"   "6209404"  <br>"6224480"   "6450877").PN.<br>OR ("3282613"   "4095113"<br>  "5105730"   "5653630"  <br>"5916021"   "5954578"  <br>"6023899"   "6695691"). | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/26<br>16:31 |

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|-----|----|---|---|----|----|---------------------|
|     |    | URPN.   |   |    |    |                     |
| S40 | 91 | ("20010008148"  <br>"2307273"   "2577564"  <br>"2810394"   "3317157"  <br>"3366141"   "3787022"  <br>"3799191"   "3894481"  <br>"4094492"   "4481451"  <br>"4518012"   "4534507"  <br>"4576201"   "4798521"  <br>"4852639"   "4875635"  <br>"5105730"   "5145456"  <br>"5154223"   "5160115"  <br>"5162020"   "5243830"  <br>"5326315"   "5399120"  <br>"5564979"   "5632672"  <br>"5653630"   "5701949"  <br>"5720657"   "5885152"  <br>"5890651"   "5899262"  <br>"5901943"   "5906355"  <br>"5931733"   "5934361"  <br>"5964658"   "6045444"  <br>"6074294"   "6211630"  <br>"6273811"   "6296562"  <br>"6569009").PN. OR<br>("2005/0217738"  <br>"5145456"   "5243830"  <br>"5632672"   "5878806"  <br>"5901943"   "5916021"  <br>"6074294"   "6325096"  <br>"6979258").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/26<br>16:31 |
| S41 | 63 | ("2989076"   "3773077"  <br>"3828816"   "4050364"  <br>"4203573"   "4867202"  <br>"4996849"   "5105730"  <br>"5145456"   "5154223"  <br>"5160115"   "5162020"  <br>"5195719"   "5243830"  <br>"5653630"   "5700191"  <br>"5797585"   "5878806"  <br>"5906355"   "6048263"  <br>"6074294"   "6209404"  <br>"6325096"   "6354935"  <br>"6398638"   "6471580"  <br>"6979258").PN. OR<br>("5160115"   "5326315"  <br>"5906355"   "5931733"  <br>"5984772"   "6296562"  <br>"6802768"   "7246788").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | ON | 2009/09/26<br>16:31 |
| S42 | 1  | DE near "2343074"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>18:41 |

|     |     |  |   |    |    |                     |
|-----|-----|--|---|----|----|---------------------|
| S43 | 2   | DE near "19801979"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>18:41 |
| S44 | 41  | Schwahn-Werner\$.in.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>19:16 |
| S45 | 127 | Klingler-Dietrich\$.in.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>19:17 |
| S46 | 960 | frame and (passage or<br>passageway or path) and<br>(opening or aperture or hole<br>or port) and (roller or shaft<br>or rod) and (louver or film<br>or valve or damper) and<br>cross and section\$2 and (air<br>or airflow) and (hous\$3 or<br>cas\$3) and hollow and body<br>and longitudinal and drive<br>and return and (pivot\$4 or<br>rotat\$4) and (cover or cap)<br>and (movable or hinge) and<br>edge and (integral\$2 or<br>monolithic\$4 or (one adj<br>piece) or unitary) and axis<br>and oppos\$3 and (project\$3<br>or protrusion or protrud\$3<br>or tongue or lug) and guid<br>\$3 and tension\$3 and clos<br>\$3 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>19:34 |
| S47 | 624 | S46 and film   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>19:35 |
| S48 | 94  | S47 and (film with (air or<br>airflow))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>19:36 |



|     |     |  |   |    |    |                     |
|-----|-----|--|---|----|----|---------------------|
| S49 | 598 | frame and (passage or passageway or path) and (opening or aperture or hole or port) and (roller or shaft or rod) and (louver or film or valve or damper) and cross and section\$2 and (air or airflow) and (hous\$3 or cas\$3) and hollow and body and longitudinal and drive and return and (pivot\$4 or rotat\$4) and (cover or cap) and (movable or hinge) and (endless or continuous) and two and layer and clos\$3 and half and opposite and direction and (center or middle) and outward | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>19:45 |
| S50 | 54  | S49 and (film with (air or airflow))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/09/26<br>19:46 |

**EAST Search History (I nterference)**

| Ref # | Hits | Search Query  | DBs                      | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--------------------------|------------------|---------|------------------|
| S51   | 0    | (frame same (passage or passageway or path) same (opening or aperture or hole or port) same (roller or shaft or rod) same (louver or film or valve or damper) same cross same section\$2 same (air or airflow) same (hous\$3 or cas\$3) same hollow same body same longitudinal same drive same return same (pivot\$4 or rotat\$4) same (cover or cap) same (movable or hinge) same edge same (integral\$2 or monolithic\$4 or (one adj piece) or unitary) same axis same oppos \$3 same (project\$3 or protrusion or protrud \$3 or tongue or lug) | US-PGPUB;<br>USPAT; UPAD | OR               | ON      | 2009/09/26 19:49 |

|     |   |  |                       |    |    |                  |
|-----|---|--|-----------------------|----|----|------------------|
|     |   | same guid\$3 same tension\$3 same clos\$3).clm.  |                       |    |    |                  |
| S52 | 0 | (frame same (passage or passageway or path) same (opening or aperture or hole or port) same (roller or shaft or rod) same (louver or film or valve or damper) same cross same section\$2 same (air or airflow) same (hous\$3 or cas\$3) same hollow same body same longitudinal same drive same return same (pivot\$4 or rotat\$4) same (cover or cap) same (movable or hinge) same (endless or continuous) same two same layer same clos\$3 same half same opposite same direction same (center or middle) same outward).clm. | US-PGPUB; USPAT; UPAD | OR | ON | 2009/09/26 19:51 |

9/ 27/ 2009 5:38:38 PM

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